AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A communication system, comprising:

a transmitter for transmitting one or more data packets;

at least one receiver connected to the transmitter, for receiving the data packets and transmitting to the transmitter one or more response signals in response to the received data packets; and

a multiplexer for multiplexing and transmitting to the transmitter the response signals transmitted from the receiver, and transmitting the transmitted data packets from the transmitter to a corresponding receiver, the multiplexer composed of:

a queue status monitor; and

a congestion control adjuster,

wherein the queue status monitor monitors a queue status of at least one of the transmitted data packets and the response signals, and

wherein the congestion control adjuster instructs the receiver to ~~hold or~~ compress the response signals based on the monitored queue status, and

wherein the receiver includes a response signal holding/compressing unit if instructed by the congestion control adjuster to compress the response signals, compressing the response signals for a second predetermined period of time.

2. (canceled).

3. (currently amended): The communication system as claimed in claim [[2]]1, wherein the congestion control adjuster instructs the corresponding receiver to hold the response signals if the queue status of the monitored data packets is over a first threshold.

4. (currently amended): The communication system as claimed in claim [[2]]1, wherein the congestion control adjuster instructs the corresponding receiver to compress the response signals if the queue status of the monitored data packets is under a first threshold and over a second threshold.

5. (currently amended): The communication system as claimed in claim [[2]]1, wherein the congestion control adjuster instructs the corresponding receiver to compress the response signals if the queue status of the monitored data packets is under a first threshold and the queue status of the response signals is over a second threshold.

6. (currently amended): The communication system as claimed in claim [[2]]1, wherein the transmitter transmits the data packets at a first transmission rate exceeding 6 Mbps, and the receiver transmits the response signals at a second transmission rate under 900 Kbps.

7. (currently amended): A communication system, comprising:

at least one transmitter for transmitting one or more data packets;

at least one receiver belonging to a private network and connected to the transmitter, for receiving the data packets and transmitting to the transmitter one or more response signals in response to the received data packets; and

a gateway for arbitrating a communication protocol between the transmitter and the private network, the gateway composed of:

a queue status monitor; and

a congestion control adjuster;

wherein the queue status monitor monitors a queue status of at least one of the transmitted data packets and the response signals, and

wherein the congestion control adjuster instructs the receiver to ~~hold or~~ compress the response signals based on the monitored queue status, and

wherein the receiver includes a response signal holding/compressing unit if instructed by the congestion control adjuster to compress the response signals, compressing the response signals for a second predetermined period of time.

8. (canceled).

9. (currently amended): The communication system as claimed in claim [[8]]7, wherein the congestion control adjuster instructs a corresponding receiver to hold the response signals if the queue status of the monitored data packets is over a first threshold.

10. (currently amended): The communication system as claimed in claim [[8]]7, wherein the congestion control adjuster instructs a corresponding receiver to compress the response signals if the queue status of the monitored data packets is under a first threshold and over a second threshold.

11. (currently amended): The communication system as claimed in claim [[8]]7, wherein the congestion control adjuster instructs a corresponding receiver to compress the response signals if the queue status of the monitored data packets is under a first threshold and the queue status of the response signals is over a second threshold.

12. (currently amended): The communication system as claimed in claim [[8]]7, wherein the transmitter transmits the data packets at a first transmission rate exceeding 6 Mbps, and the receiver transmits the response signals at a second transmission rate under 900 Kbps.

13. (currently amended): A communication method in which a receiver receiving data packets from a transmitter transmits to the transmitter response signals corresponding to the data packets, comprising:

monitoring a queue status of at least one of the data packets and the response signals;

instructing the receiver to ~~hold or~~ compress the response signals based on the monitored queue status; and

~~holding the response signals for a first predetermined period of time if the holding of the response signals is instructed, and~~ compressing, by a congestion control adjuster, the response signals for a second predetermined period of time if the compression of the response signals is instructed.

14. (currently amended): The communication method as claimed in claim 13, wherein ~~a~~ the congestion control adjuster instructs a corresponding receiver to hold the response signals if the monitored queue status of the data packets is over a first threshold.

15. (currently amended): The communication method as claimed in claim 13, wherein ~~a~~ the congestion control adjuster instructs a corresponding receiver to compress the response signals if the monitored queue status of the data packets is under a first threshold and over a second threshold.

16. (currently amended): The communication method as claimed in claim 13, wherein ~~a~~ the congestion control adjuster instructs a corresponding receiver to compress the response signals if the monitored queue status of the data packets is under a first threshold and the monitored queue status of the response signals is over a second threshold.

17. (cancelled).

18. (canceled).

19. (canceled).

20. (previously presented): The communication system according to claim 1, further comprising a first-in first-out (FIFO) buffer which outputs one of: the one or more data packets transmitted from the transmitter and the one or more response signals transmitted from the receivers.